

Title (en)

METHOD AND DEVICE FOR CALIBRATING THE CONTROL OF AN ELECTRICAL MACHINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KALIBRIERUNG EINER REGELUNG EINER ELEKTRISCHEN MASCHINE

Title (fr)

PROCÉDÉ ET DISPOSITIF D'ÉTALONNAGE DE LA COMMANDE D'UNE MACHINE ÉLECTRIQUE

Publication

**EP 4065998 A1 20221005 (DE)**

Application

**EP 20793690 A 20201021**

Priority

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Abstract (en)

[origin: WO2021104753A1] The invention relates to a method (400) for calibrating the control of an electrical machine (120) for a specifiable torque value (T\_Des), the electrical machine (120) being operated by means of field-oriented control. The method comprises the steps of: a.) specifying a current vector (I<sub>x\_V</sub>) (410) for producing the specifiable torque value (T\_Des) by means of a connectable electrical machine (120), b.) specifying a test signal (S<sub>x\_Test</sub>) (420) and superimposing the test signal (S<sub>x\_Test</sub>) on the current vector (I<sub>x\_V</sub>), c.) capturing (430), by means of a sensor (130), a response signal (S<sub>x\_Antw</sub>) resulting from the superimposing, e.) determining (450) a calibrated current vector (I<sub>Vk</sub>) according to the evaluation of the response signal (S<sub>x\_Antw</sub>).

IPC 8 full level

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